



**LINK ELECTRONICS, INC.**

PORTABLE SERIES

## VIDEO DISTRIBUTION AMPLIFIER 12 VOLTS AC OR DC OPERATION MODEL PVA-50



MADE IN THE USA



Wall Transformer  
Included  
Part #PWT-3512  
or DC Powered

### FEATURES

- ◆ Four Outputs
- ◆ Differential Input
- ◆ Battery Operated
- ◆ Bandwidth 40MHz
- ◆ Gain Adjust " 3dB
- ◆ Low Power Consumption

The PVA-50 is a portable broadcast quality video distribution amplifier which combines excellent performance with low power consumption. The unit is designed for field use, and is housed in a durable high-impact plastic case. The input is high-impedance, looping, and four 75 Ohm outputs are provided. A front panel gain control adjusts for " 3dB gain. The versatility of the PVA-50 is aided by an on-board voltage regulator which allows the unit to be powered from an external AC or DC supply. Operating voltage range is identical to that of modern ENG cameras. Weighing in at only 5.5 ounces (156g), the PVA-50 can easily be carried by a field cameraman and powered by the camera's battery pack. The ability to operate from an AC supply also provides complete polarity protection for mobile or field operation.

Video performance is highlighted by an outstanding video bandwidth, within -1 dB at 40MHz, extremely low tilt, less than 0.5%, and low signal to noise ratio, greater than 60dB. Differential signal input is standard and both input and outputs are AC coupled. Phase and gain errors are controlled to within 0.25 degrees and 0.25 percent respectively. The input voltage can be AC or DC in the range of 10.8 to 20 volts with power drain of approximately 30mA. The PVA-50 is the perfect companion for practically any field operation. Performance, reliability, and economy come together in an attractive, light-weight case that won't load down the cameraman or his power supply. The PVA-50 Video DA is backed by the standard ten year warranty including parts and labor.

**LINK ELECTRONICS, INC.** g 2137 Rust Avenue g Cape Girardeau, MO 63703-7668

Phone 573 334 4433 g FAX 573 334 9255

# MODEL PVA-50 PORTABLE VIDEO DA

## SPECIFICATIONS

### INPUT:

Video Level: ..... 1.0Vpp " 3dB  
Impedance: ..... >50K Ohms  
Common Mode Range: ..... 60 Hz, 1Vpp  
Maximum DC In: ..... " 12 VDC  
CMRR: ..... >50dB @ 60Hz

### OUTPUTS:

Number: ..... Four each, BNC  
Level: ..... Unity Gain " 3dB

### AMPLIFIER PERFORMANCE:

Freq. Response: ..... " 0.1dB to 20MHz  
..... -1.0 to 40 MHz  
Diff. Gain: ..... <0.25%, 10% to 90% APL  
Diff. Phase: ..... <0.25E, 10% to 90% APL  
Output Isolation: ..... >-40dB at 3.58 MHz  
Return Loss: ..... >40dB to 6MHz  
..... 39dB to 20MHz  
Tilt: ..... <0.4%  
Ringing: ..... <0.4%  
Propagation Delay: ..... 10 nS  
High Freq. Overshoot: ..... <0.4%  
Coupling: ..... AC in and out

### INTERNAL CONTROLS:

Common Mode Null: ..... Trim adjust  
Freq. Response Trim: ..... Flat response

### ENVIRONMENTAL:

Temperature: ..... . 0E to 50E C, ambient  
Humidity: ..... 10% to 90% non-condensing

### POWER:

12 Volts AC or DC:  
Range: ..... 10.8 to 20 Volts  
Power: ..... 30mA Typical

### MECHANICAL:

Height: ..... 1.4 Inch  
Width: ..... 4.5 Inch  
Depth: ..... 2.6 Inch  
Weight: ..... 5.5 oz.

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PROFESSIONAL SERIES--  
portable system products--by **LINK**